

OPERATING MANUAL

TU 3428 – 003 – 80210527 – 14
PATENT OF INVENTION No. 2420640

Version:

fail-safe, fail-secure

Date of manufacture:

1. PURPOSE

SHERIF-3V electric door strike is designed to lock swing doors, gates and wickets, allowing you to remotely open them using Access Control System controllers, audio and video intercoms, code panels. Door strike can be installed to lock any wooden, plastic, aluminum, and steel doors.

2. OPERATING CONDITIONS

Climatic operating conditions:

– Air temperature: -40 to +30°C.

– Relative air humidity: not more than 95% at 35°C and lower **temperatures without condensation and frost formation**

- Resistance to climatic factors according to GOST 15150-69: UHL2

Fail-safe door strike can be installed outdoors provided that it is in the closed position (supply voltage is applied) during most of winter.

3. DESIGN AND SPECIFICATIONS

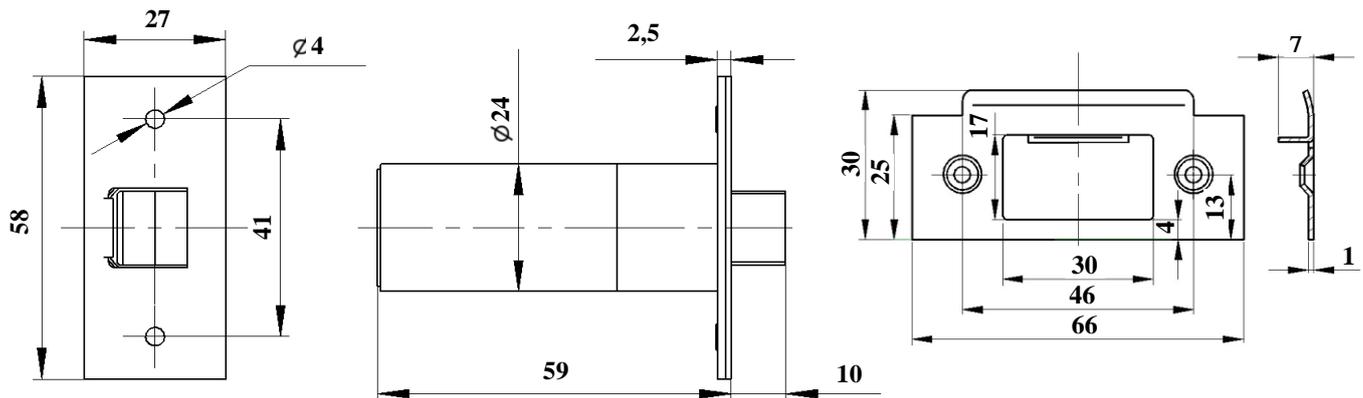


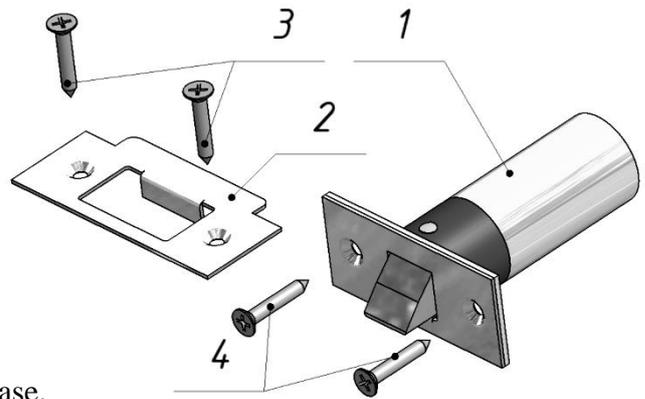
Fig. Mounting and overall dimensions of a door strike and a strike plate.

SHERIF-3V door strike is available in two versions: fail-safe and fail-secure. Fail-safe door strike is in the open position when there is no supply voltage and in the closed position when the supply voltage is applied. Fail-secure door strike is in the closed position when there is no supply voltage and in the open position when the supply voltage is applied.

	Fail-safe door strike	Fail-secure door strike
Holding force, kg, at least	300	
DC supply voltage U_s , V	12±2	
Duration of supply voltage turn-on at: $U_s = 10-11$ V, sec $U_s = 11-14$ V, sec	not rated	not rated no more than 120
Pause time between supply voltage turn-ons:	not rated	Not less than a turn-on duration
Consumption current (at $U_s = 12$ V), mA	85	160
Door strike weight, kg, no more than	0.17	

4. CONTENTS OF DELIVERY

1. Electric door strike	1 pc.
2. Strike plate	1 pc.
3. Self-tapping screw 3.5x32 DIN 7982	2 pcs.
4. Self-tapping screw 3.9x32 DIN 7982	2 pcs.
5. Operating Manual	1 pc.
6. Marking template	1 pc.



Check the completeness of your product upon purchase.
Manufacturer does not accept any completeness claims in the future.

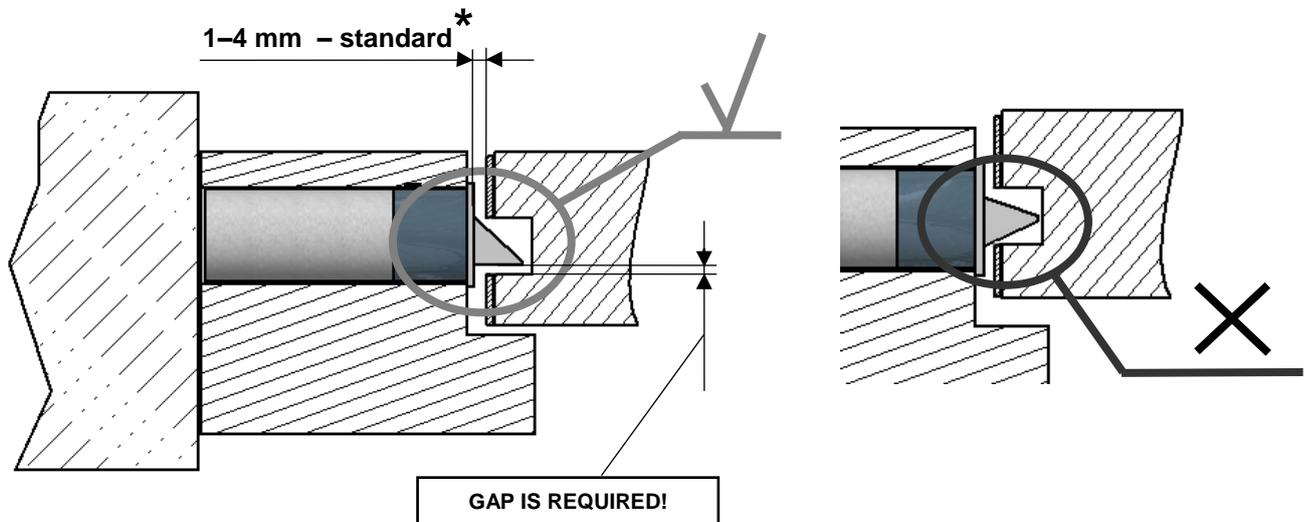
5. INSTALLATION AND CONNECTION

SHERIF-3V electric door strike can be installed:

- both into a door frame and into a door leaf.
- on a door both inward-opening and outward-opening, right and left.
- on a door both rebated and non-rebated.

It is recommended to use the door strike together with a door closer: this reduces the impact load on a door strike and increases its service life.

If you use the SHERIF-3V fail-secure door strike to restrict access to a room, you shall mandatorily install the SHERIF-3V.KL lock release mechanism (optional), as it is necessary to allow people to leave the room in an emergency (e.g. in case of fire).



✗ – Door strike is not actuated, as the door pushes against a latch of the door strike.

* - Increase in the gap between a door strike housing cover and a strike plate will lead to decreasing the door holding force and reducing the smoothness of motion of the door strike latch and, as a consequence, the smoothness of the door motion.

WARNING! Don't change over the door strike to a closed position until you make sure that all necessary gaps are provided!

1. Minimum gap within 1-4 mm between a strike plate and a mounting plate of the door strike shall be provided during the installation. Observation of this requirement ensures the door holding force of 300 kg.

2. It is required to provide a gap between the latch and the strike plate when the door is in the closed position.

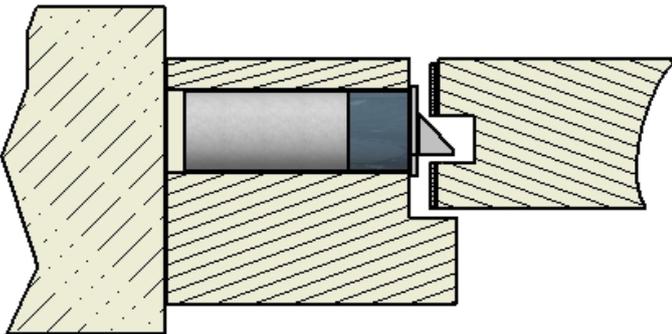
Failure to observe this gap may result in a situation where the door strike will not be locked because its latch under the door pressure will move to an intermediate position, and will not be unlocked, because a latch of the door strike will be stuck.

When you install a door strike to gates or wickets, the door strike should be protected from direct rainfall and sunlight.

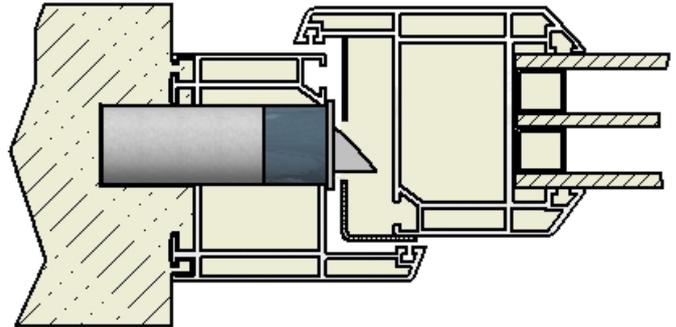
For reliable operation of the door strike mounted on the outer door in winter operating conditions, it is not permitted to de-energize the door strike for a long time. This allows water in the mechanism to keep warm due to the heat emitted by the door strike.

Options for installing the door strike onto various types of doors (wooden, plastic, steel) are given below.

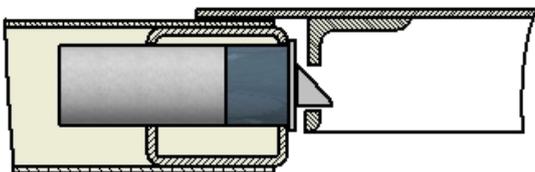
into a door frame of the wooden door



into a door frame of the plastic door



into a door frame of the steel door



installation into a door leaf of the wooden door

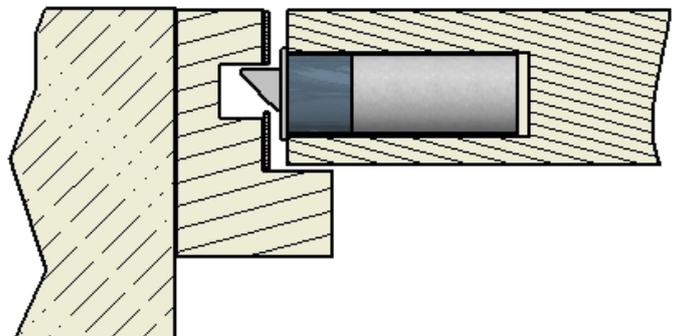
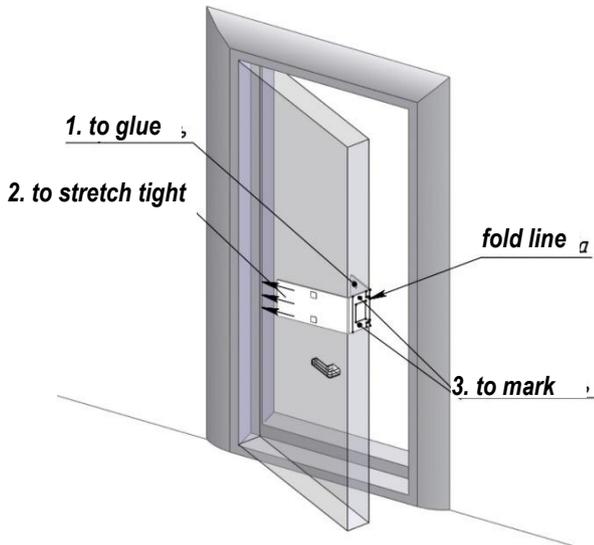


Fig. Door strike installation options

5.1. INSTALLATION PROCEDURE

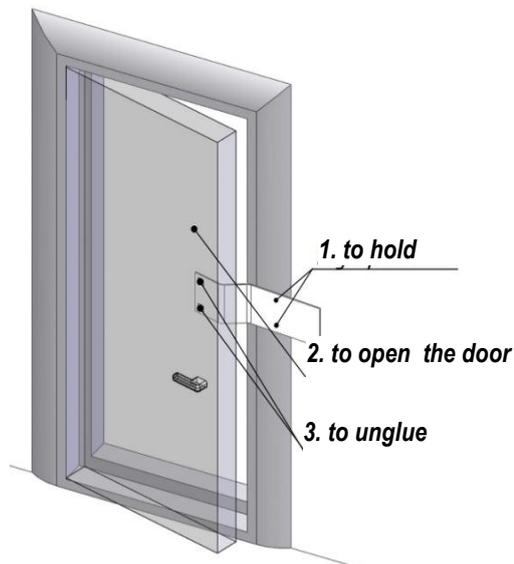
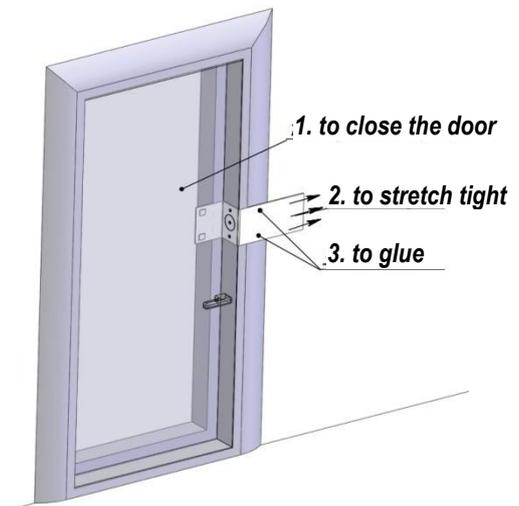
A paper template from the delivery set shall be used to mark fixation holes when installing the door strike into a door frame.

The template consists of two sides: one side is intended to mark fixation holes of a strike plate on the door leaf, and the other side – to mark fixation holes on the door frame and a mounting hole for the door strike.



1. Remove the protective film from tape "1".
2. Align the edge of a door leaf, which is the closest to a doorframe, and the fold line of the template.
3. Secure the template by gluing it to the surface of the door.
4. At the edge of the door leaf, mark dimensions of the groove and the centers of fixation holes of the strike plate using an awl.

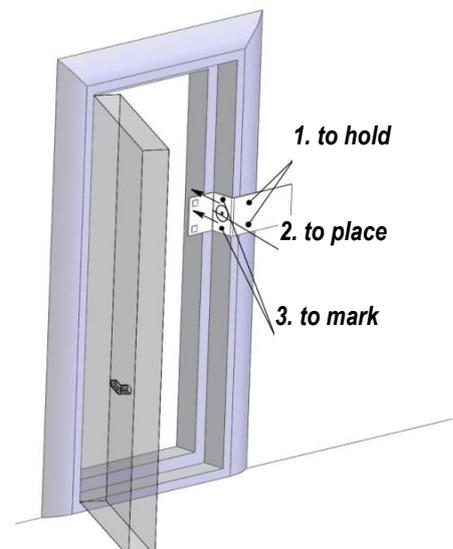
5. Close the door. Remove the protective film from tape "2".
6. Stretch the template tight, fold and glue it to the door frame.



7. While holding the template in places of its gluing to the door frame carefully open the door and unglue the template from the door leaf. Avoid the template displacement with respect to the door frame.

8. Place the template on the door frame and mark the centers of fixation holes and of the mounting hole of the strike plate using an awl.

9. Drill 2-2.5 mm diameter holes to fasten self-tapping screws and 24-25 mm diameter holes to install the lock.



5.2. CONNECTION PROCEDURE

To control the door strike, a controller (control board) or a switch (push button) is used. Controller installation should be carried out in accordance with its technical specification.

Warning: Door strike is powered by the voltage from 10 to 14 V. Avoid to apply an increased supply voltage, as the door strike may be damaged due to overheating!

Connect a **black (dark)** power wire of the door strike to the negative pole of the power supply, and a **red (white)** wire – to the positive pole.

Ensure a reliable electrical contact. To prevent short circuits, isolate the joints.

6. DOOR STRIKE OPERATION

For opening, **you must first remove supply voltage from the fail-safe door strike or apply supply voltage to the fail-secure door strike**, and open the door after that only.

7. POTENTIAL FAILURES, PROBLEMS WITH INSTALLATION AND THEIR TROUBLESHOOTING

Failure	Cause	Troubleshooting method
Fail-safe door strike does not lock the door when voltage is applied. Fail-secure door strike does not unlock the door when voltage is applied.	Integrity of the door strike's supply circuit is disrupted.	Check the door strike's supply circuit.
	Supply voltage of the door strike is below minimum permissible.	Check the door strike's supply voltage. It shall be within the range specified in p. 3 of "Specifications".
	Door strike is improperly installed (strike plate pushes against a latch of the door strike).	Install the door strike properly with observation of necessary gaps (see p. 5 of "Installation and Connection").
Door strike is closed with an effort; the motion of the door strike has no smoothness.	Gap between a strike plate and a mounting plate of the door strike is too big.	Install the door strike properly with observation of necessary gaps (see p. 5 of "Installation and Connection").
Fail-safe door strike does not unlock the door when the voltage is removed. Fail-secure door strike does not lock the door when the voltage is removed.	Strike plate pushes against a latch of the door strike.	Provide a required gap between the latch and the strike plate in the closed position of the door (see p. 5 of "Installation and Connection").

8. MAINTENANCE

SHERIF-3V door strike is lubricated by the manufacturer and does not require any additional lubrication and special maintenance. However, if dust or dirt have ingressed inside the door strike during operation, and the door strike has started to run rough, you shall remove it, carefully unglue a protective film (a vinyl gray film, covering the housing grooves), wash the door strike by immersing it into a white spirit or a nefras up to the depth of grooves (no more!). Dry the door strike and make sure that its performance was restored. Through grooves, without pushing a latch, lubricate the internal walls of the housing and the ends of the grooves with waterproof anti-friction grease (such as SHRUS). Then lubricate internal walls of the housing on the latch side by pushing a latch as far as it will go. **It is not allowed to use a silicone grease and WD-40.** Glue the previously removed label to its place and reinstall the latch back onto the door.

9. MANUFACTURER'S WARRANTY

Engineering & Technical Center PROMIX, LLC guarantees the compliance of the door strike with the requirements of applicable TU standards, while respecting the operation and installation procedures/regulations. Warranty period is 18 months from the date of acceptance by Quality Control Department.

During the warranty period, Engineering & Technical Center PROMIX, LLC undertakes to repair the defective product free of charge. The Buyer shall bear the costs of the defective product shipping to the place of repair and back.

The Warranty shall not cover defects or damages resulting from:

- Use of the door strike in conditions, nonconforming to the operating requirements;
- Mechanical damage or disassembly, modification of the door strike housing by the Buyer;
- Violation of transportation and storage regulations.

PACKING AND ACCEPTANCE CERTIFICATE

SHERIF-3V electric door strike with the specified date of manufacture is made and accepted in accordance with TU 3428-003-80210527-14, obligatory requirements of state standards and applicable technical documents, found fit for service and packed by Engineering & Technical Center PROMIX, LLC.

QCD seal

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Please, send us all your comments and suggestions concerning our products via e-mail: mail@itc-promix.ru. Thank you in advance!